

David Strohmaier

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Scientific Interests

- Modelling Cognitive Processes
- Deep Learning
- Bayesian Methods
- Decision Theory

Education

- 2023-Ongoing PhD in Computer Science**
Cambridge University
- 2018-19 MPhil in Advanced Computer Science**
Cambridge University
Distinction
- 2015-18 PhD in Philosophy**
University of Sheffield
- 2014-15 MA in Philosophy**
University of Sheffield
Distinction
- 2012-14 BA in Philosophy and Sociology**
University of Göttingen
- 2011-14 BA in Sociology**
University of Göttingen

Awards & Grants

- 2018** Postgraduate Researcher Experience Programme
- 2015-2018** AHRC Competition Studentship
- 2015** Best Social Science BA Diss.
University of Göttingen
- 2013** Niedersachsenstipendium
- 2011** Deutschlandstipendium

Selected Projects

- 2022 Modelling Complexity**
Using pymc to model lexical complexity datasets
- 2020-21 WSD Systems**
Multiple Word-Sense Disambiguation Systems
- 2018 Adaptive Utility**
Interactive visualisation of motivational change
Technologies: Python, Jupyter notebook.

Experience

- 2019 – Ongoing Research Associate** | University of Cambridge
ALTA Institute, Department of Computer Science and Technology
NLP technologies for language learning
- 2021 – 2022 Supervisor: Prolog Course** | Robinson College
University of Cambridge
- 2016 Internship** | Hamburg Institute for Social Research (HIS)
Supporting editorial work
- 2013 – 2014 Student Assistant** | University of Göttingen

Publications

Books

Under Contract. Strohmaier, D., Messerli, M.. Preference Change. Cambridge University Press.

Journal Papers & Proceedings

- Forthcoming.** Wimmer, S., Strohmaier, D. Contrafactuals and Learnability: An Experiment with Propositional Constants. Post-Proceedings of Logic and Engineering of Natural Language Semantics 19.
- 2022** Wimmer, S., Strohmaier, D. Contrafactuals and Learnability. Amsterdam Colloquium.
- 2022** Tyen, G., Strohmaier, D. (equal contribution) A Category Theory Framework for Sense Systems. GLOBALEX 2022 @ IREC.
- 2021** Yuan, Z., Tyen, G., Strohmaier, D. Cambridge at SemEval-2021 Task 1: An Ensemble of Feature-Based and Neural Models for Lexical Complexity Prediction. SemEval-2021.
- 2021** Yuan, Z., Strohmaier, D. Cambridge at SemEval-2021 Task 2: Neural WiC-Model with Data Augmentation and Exploration of Representation. SemEval-2021. Model achieved best results on some tracks.
- 2021** Strohmaier, D. Organisation as Computing Systems. Journal of Social Ontology.
- 2021** Strohmaier, D. Ontology, Neural Networks, and the Social Sciences. Synthese.
- 2020** Strohmaier, D., Gooding, S., Taslimipour, S., Kochmar, E. SeCoDa: Sense Complexity Dataset. IREC 2020.
- 2020** Strohmaier, D. Social-Computation-Supporting Kinds. Canadian Journal of Philosophy.
- 2020** Strohmaier, D. Two Theories of Group Agency. Philosophical Studies.
- 2018** Strohmaier, D. Group Membership and Parthood. Journal of Social Ontology.

Book Reviews

- 2021** Strohmaier, D. Review of Richard Pettigrew's "Choosing for Changing Selves". The Philosophical Quarterly.
- 2019** Strohmaier, D. Review of Richard Bradley's "Decision Theory with a Human Face". Philosophical Psychology.

Selected Talks

- 2021** Strohmaier, D. Cognitive science talk. University of Sheffield. Title: DL4ELSA: Deep Learning for Exploring Lexical Semantic Acquisition
- 2021** Strohmaier, D. Philosophy & AI Workshop. Online. University of Leeds. Title: Ontology, Neural Networks, and the Social Sciences.
- 2020** Strohmaier, D. Social Ontology. Online. Title: Social-Computation-Supporting Kinds.
- 2018** Strohmaier, D. Foundations of Utility and Risk Conference. York. Title: Deep Cooperation.